Greenfield Complete Streets Prioritization Plan









Goals for Public Meeting



- Overview of MassDOTComplete Streets FundingProgram
- Educate the community on Complete Streets design elements
- Gather your feedback to help consultant team better understand needed improvements







MassDOT CS Funding Program



- Tier 1 Adoption of Complete Streets Policy
- Tier 2 Development of Complete Streets
 Prioritization Plan up to \$50,000 available for each participating community
- **Tier 3** Project Approval and Notice to Proceed for installation or construction up to \$400,000 available for participating community







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What is a Complete Street?









A Complete Street is safe, comfortable and convenient for travel via foot, bicycle, transit and automobile for anyone regardless of age or ability.

Context Matters



Davis St. looking south from Norwood



Suburban/ Small Town

Rural





Main St. looking east



Colrain St. at the Green River bridge

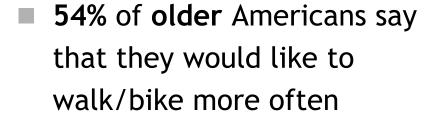




Why do we need Complete Streets?









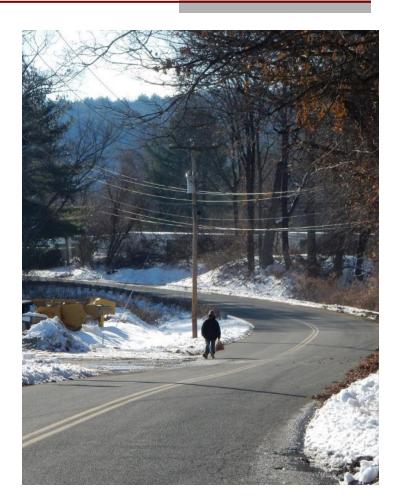
■ 1/3 of all Americans do not drive because of age, ability or economic status



Mitigate impacts of climate change and reduce harmful air pollution



Complete streets reduce isolation and dependence





Source: America Bikes web site

Complete Streets are Safe Streets



Percentage Fewer Crashes

PEDESTRIANS

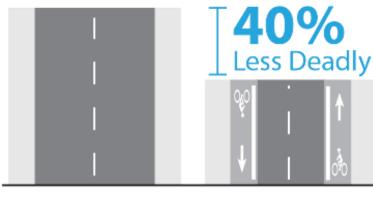
▶ 88% with sidewalks

↓ 69% with hybrid beacon

↓ 39% with medians

▶ 29% with road DIETS

BICYCLISTS



AUTO-ORIENTED STREETS

STREETS WITH BIKE LANES





Source: National Complete Streets Coalition and FHWA

Source: NYC DOT (2010) The New York City Pedestrian Safety Study & Action Plan.

Complete Streets increase roadway capacity

















Complete Streets Toolbox



MassDOT Eligible Complete Streets Infrastructure

A. Pedestrian Facilities



B. Bicycle Facilities



C. Traffic + Safety



D. Transit Facilities



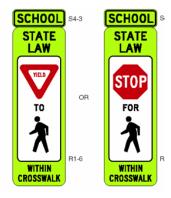




A. Pedestrian Facilities

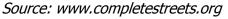


Focus first on easy-toimplement and low cost solutions, but...



...plan for long term improvements that may require state and federal funding









A. Pedestrian Facilities: Low Cost



- Pavement markings
- In-street pedestrian signs
- Signage
- Removing obstacles
- Modifying traffic signal equipment











A. Pedestrian Facilities: Long Term



- 1. Sidewalks
- Intersections/Crossings
- 3. ADA Accessibility
- 4. Trails







AI. Sidewalks



- Minimum width: 4 feet
- Recommended width:
 - 5 8 feet on side streets
 - 10 15 feet in business districts
- Well connected, form a network
- Accommodate desire lines









AI. Sidewalks



Prioritize pedestrians, not vehicle traffic, at driveways and street crossings







A2. Intersections/Crossings



New Traffic Signals and Equipment

- Pedestrian push buttons
- Count-down signals and Lead Pedestrian Interval (LPI) of 3 or 5 seconds









A2. Intersections/Crossings



Reduce Crossing Distance with Curb Extensions

- Extends into roadway to shorten exposure time
- Improves visibility, especially for children
- Creates visual pinch points to slow traffic







A2. Intersections/Crossings



Reduce Crossing Distance with Refuge Islands

- Shortens exposure time
- Provides a safe refuge between directions of vehicle travel
- Creates visual pinch points to slow traffic







A3. ADA: Good Design for All



- 20% of Americans have a disability that limits their daily activities
- Complete Streets feature curb cuts, high visibility crosswalks, and other designs for travelers with disabilities





Existing condition at Chapman and Pleasant Streets





A4. Trails



- Intended for use by pedestrians, bicyclists, other non-motorized users
- Width: 8'-12' paved
- Roadway separation: 5' minimum
- Trails are the most desirable facility along busy roadways







B. Bicycle Facilities



- Separated bike lanes
 (aka cycle tracks)
- 2. Neighborhood bikeways
- 3. Standard bike lanes
- 4. Intersection treatment
- 5. Shared roadways







BI. Separated Bike Lanes



Roadway grade cycle tracks (one way or two way traffic)



Broadway cycle track, Seattle

Sidewalk grade cycle tracks



Main Street proposed, Northampton





B2. Neighborhood Bikeways



Traffic diverters

Traffic calming

Branding













B3. Standard Bike Lanes









B4. Intersection Treatment



- Bike lane skip striping for guidance
- Green bike lanes
- Bicycle signals
- Bike Boxes
- Two-stage left-turn queue boxes









B5. Shared Roadways



- Shared lane markings
- Enhanced shared lane markings
- Signed routes







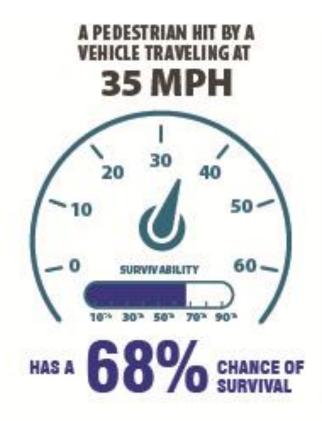


C. Traffic and Safety



A pedestrian's chance of death if hit by a motor vehicle reduces dramatically for every 10 MPH in speed dropped







C. Traffic and Safety



Narrow travel lanes



15' travel lane along 2A / Main St



20' travel lane along Main St by Conway St



23' travel lane at Mill Street intersection with Bank Row



>42' between parking at Court Sq





C. Traffic and Safety



Raised crossings







Raised crosswalk at Keene State College

C.Traffic and Safety



Large turning radii increases speeding





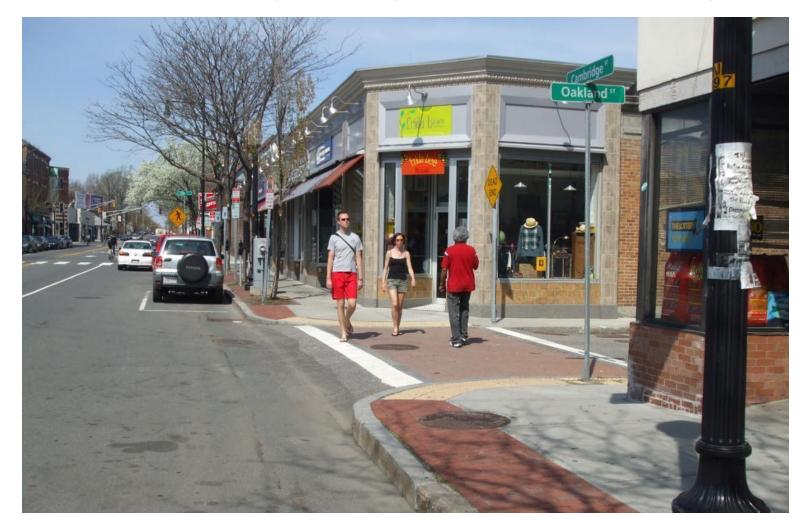


Source: www.completestreets.org

C.Traffic and Safety



Slower traffic with tight turning radius and raised crossing







D. Transit Facilities



- Nearly every transit trip begins as a walking trip
- Ideal multi-modal nodes include rail and bus service, quality bike parking and sidewalks







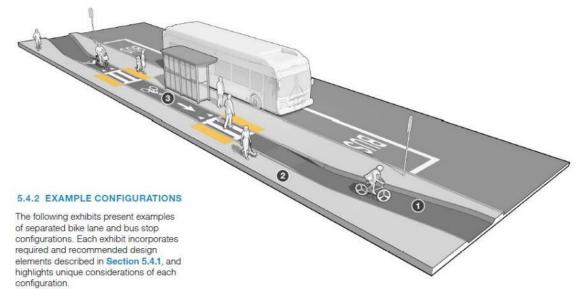
D. Transit Facilities



Safe and comfortable transit stations and shelters that are connected by a well established sidewalk and bicycle network reduce barriers to transit use for everyone

EXHIBIT 51: FLOATING BUS STOP (MID-BLOCK)









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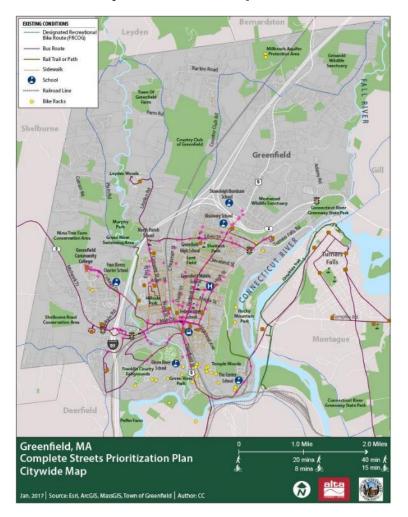




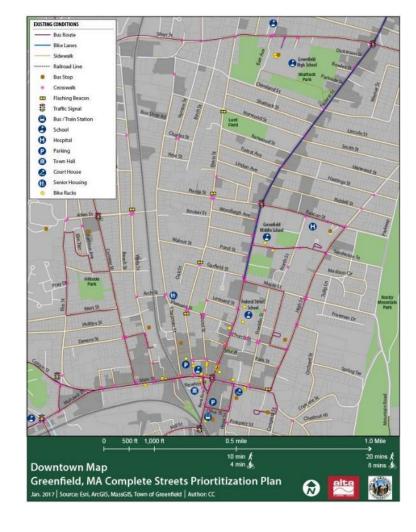
Break out groups



■ 1. City-wide maps



2. Downtown-inset maps







Small Group Prompts



- 1. What are the critical gaps in the current sidewalk and on-street bicycle network within Greenfield?
- 2. Are there gaps in the sidewalk network in your neighborhood, near your school or workplace?
- 3. What challenges do you face when walking/biking to and from downtown?
- 4. What facility improvements would enhance public transit in Greenfield?

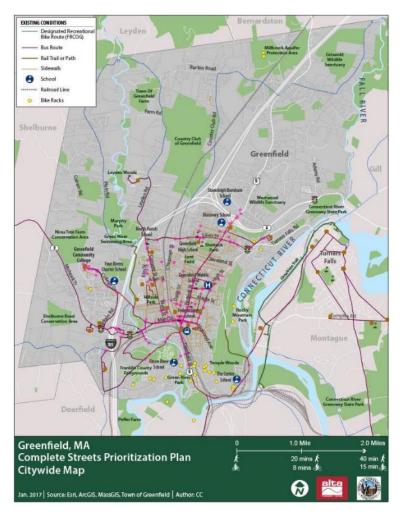




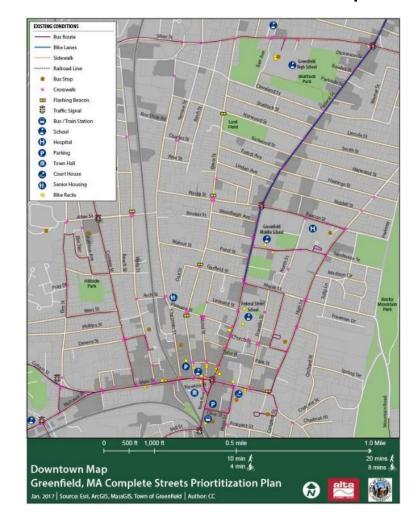
Reports Back



1. City-wide maps



2. Downtown-inset maps







Next Steps



	2016 2017					
	December	January	February	March	April	May
2.1: Network Gap Apabels and Manning			zaman esman esman l'ama			
22: Roadway Safet ASK3:COMPLETES Monday Ja	n 30·					
		1 1 1				1 1 1
3.1:Category 1:Tra 32:Category 2:Bic Public Mee	ating #1					
32:Category 2:Bic PUDIIC IVIEE	iniy # i 🔛					
33: Category 3: Ped 34: Category 4: Transit Facilities						
35: Project Goals and Prioritization						
ASK 4: SUPPORTING TASKS/PUBLIC ENGAGEMENT						
4.1: Internal Team Meetings (Four Total)						•
42: Public Meetings (Two Total)						
43: Final Maps						
4.4: Five Priority Projects' Concept-level Design						
TASK 5: C.S. PROJECT PRIORITIZATION PLAN REPORT		1 1 1				
	 !!!	N /				
52: Recommended/Prioritized Projects Contruc	<u>/ednesday</u>	Marc	n 29:			
to be the first of the country of the country of the country of						
P	ublic Meet	ına #Z	2	1 1 1 1		
		Tas	k Progress			
		◆ Me	eting (in person o	r conference call		

THANK YOU!

http://greenfield-ma.gov/n/142/Press-Release---Greenfield-Complete-Streets-Prioritization-Plan







